



SHEET PILING SOLUTIONS

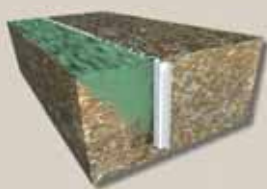
- > RIGID VINYL
- > FIBRE REINFORCED PLASTIC

SUSTAINABILITY

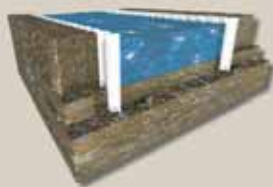
CMI products encompass the latest manufacturing technologies and focus on environmental sustainability – converting plastic into environmentally friendly products. The vinyl plies have 92% recycled content! Vinyl sheet piles and Fibre Reinforced Plastic (FRP) sheet piles have a long design life and they are light weight saving emissions due to transport and handling. In addition to these benefits the products are ideally suited for applications which protect and remediate the environment.

APPLICATIONS

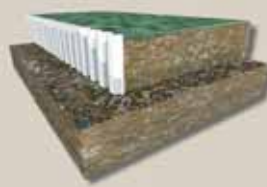
Vinyl and FRP sheet piles can be used for a wide range of applications. They are light weight, chemical and corrosion resistant with excellent hydraulic performance to prevent seepage in cut off or containment applications. The experienced staff at J Steel Australasia Pty Ltd welcome the opportunity to discuss your application and provide technical assistance.



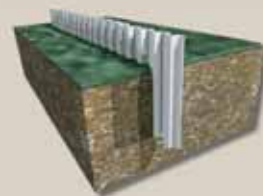
CUTOFF WALLS



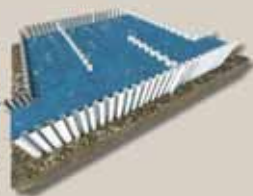
CHANNEL LINING



RETAINING WALLS



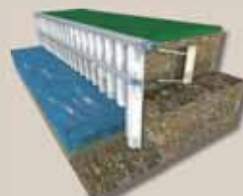
FLOOD WALL



BAFFLE/WEIR



DIKE CORE



SEAWALLS



ROAD STABILISATION

SPECIFICATIONS

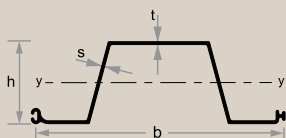
		WIDTH	HEIGHT	THICKNESS		PROFILE	ALLOWABLE MOMENT*	SECTION MODULUS	MOMENT OF INERTIA
		b mm	h mm	t mm	s mm		kNm/m	cm ³ /m	cm ⁴ /m
VINYL	SG-950	457	305	16.5	16.5	Z	67.37	3,054	46,567
	SG-850	457	254	13.1	13.1	Z	44.12	2,000	25,400
	FP-575**	610	229	12.1	7.4	Flat	37.01	1,677	12,430
	SG-650	457	254	9.8	9.8	Z	35.11	1,591	20,212
	SG-625	762	254	9.8	9.8	Box	28.94	1,312	16,660
	FP-475**	610	178	6.1	6.4	Flat	24.32	1,102	6,145
	CL-9900	610	229	8.9	8.9	Box	23.72	1,075	12,290
	SG-550	305	203	9.4	9.4	Z	23.13	1,048	10,652
	SG-525	610	229	7.4	7.4	Box	20.87	946	10,788
	CL-9000	610	229	7.1	7.1	Box	19.22	871	9,969
	SG-425	610	203	7.2	7.2	Box	16.96	769	7,784
	SG-300	305	178	6.4	6.4	Z	13.88	629	5,599
	SG-325	610	178	6.4	6.4	Box	13.17	597	5,326
	SG-225	457	127	5.7	5.7	Box	8.54	387	2,458

		WIDTH	HEIGHT	THICKNESS		PROFILE	ALLOWABLE MOMENT*	SECTION MODULUS	MOMENT OF INERTIA
		b mm	h mm	t mm	s mm		kNm/m	cm ³ /m	cm ⁴ /m
FRP	UC-95	762	432	13.7	13.7	Z	216.84	3,145	67,870
	UC-75	610	356	10.9	10.2	Z	140.85	2,043	36,325
	UC-50	914	254	9	8.3	Box	77.1	1,118	14,200
	UC-30	457	203	6.7	6.4	Z	48.19	698	7,101

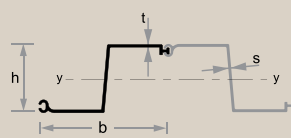
*Allowable moment is a simplified calculation for comparison and sizing of sections, this should be verified by the engineer.

**FP sections are not symmetrical. The quoted allowable moment and section modulus assume a simple wall and composite action with the soil back fill. On this basis the maximum allowable tensile design stress occurs on the front face, and buckling restraint for the legs in compression on the back face is provided by the soil. These values will not apply if compression occurs on the front face (e.g. a cantilever wall) or if the back fill is not able to provide the buckling restraint.

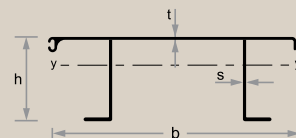
PROFILES



BOX PROFILE



Z PROFILE

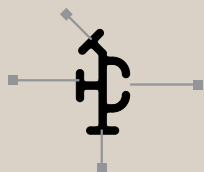


FLAT PROFILE



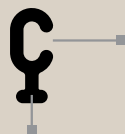
PILE CAPPING

CORNER PIECES FOR SHEET



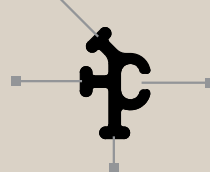
SG 225-425 CORNER

Use with SG 225, SG 300, SG 325, SG 400, SG 425, CL 9000 and CL 9900, GG 20 & GG 30



CL 90° CORNER

Use with CL 4500



SG 550 CORNER

Use with SG 550 and SG 525



SG 950 CORNER

Use with SG 950



SG 650-750 CORNER

Use with SG 650, SG 750, SG 625 and GG 50

J Steel Australasia Pty Ltd is the exclusive agent for Crane Materials International (CMI) in Australia, New Zealand and Pacific Islands. CMI are part of The Crane Group, and provide over 60 years of experience and innovation. CMI are leaders in the research and development of plastic and composite building materials, creating long-life, high-performance products. Additional technical information can be obtained via www.jsteel.com.au or www.cmisheetpiling.com.

INSTALLATION

Installation of Vinyl and FRP sheet piles is similar to the installation of other sheet piles. In many cases because they are so light, heavy handling is not required and installation can be done a lot quicker. Piles can be installed with conventional piling equipment; drop/impact hammers, leader and excavator mounted piling vibrators. Simple methods of installation can also be employed; pushing/driving with excavator bucket, driven with a jack hammer, driving cap, water jetting or with an excavator mounted plate compactor. With difficult driving conditions (SPT >25) the use of a steel mandrel with a piling vibrator is recommended to assist with the pile penetration. A DVD with examples of installation techniques is available upon request.



KINLOCK NZ - MANDREL

LAUNCESTON TAS - PLATE COMPACTOR

GOLD COAST DESAL QLD - MANDREL



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